

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions and listings of claims in the application.

LISTING OF CLAIMS

1-34. (Cancelled)

35. (Currently Amended) A piano hinge defining a hinge line, the piano hinge comprising a two-way shape memory alloy (SMA) positioned along the hinge line to form a pin that at least partially twists when the two-way SMA pin changes between an austenite temperature and a martensite temperature, hinge leafs defining a passage into which the two-way SMA pin fits, and a key-spline arrangement rigidly securing the two-way SMA pin to the hinge leafs for transfer of torque from the two-way SMA pin to one of the hinge leafs relative to the other of said hinge leafs.

36. (Currently Amended) The piano hinge of claim 35, wherein the further comprising hinge leafs include having alignable knuckles that [[to]]] define the passage into which the two-way SMA pin fits, and a key-spline arrangement for transfer of torque from the two-way SMA to the appropriate leaf.

37. (Previously Presented) The piano hinge of claim 35, wherein the two-way SMA is configured to apply torque within a range of about 27 inch pounds and about 1740 inch pounds.

38. (Previously Presented) The piano hinge of claim 35, wherein the two-way SMA is configured to apply torque within a range of about 27 inch pounds and about 1010 inch pounds.

39. (Previously Presented) The piano hinge of claim 35, wherein the two-way SMA is configured to apply torque within a range of about 1010 inch pounds and 1740 inch pounds.

40. (Previously Presented) The piano hinge of claim 35, wherein the two-way SMA is configured to apply torque at about 1740 inch pounds.